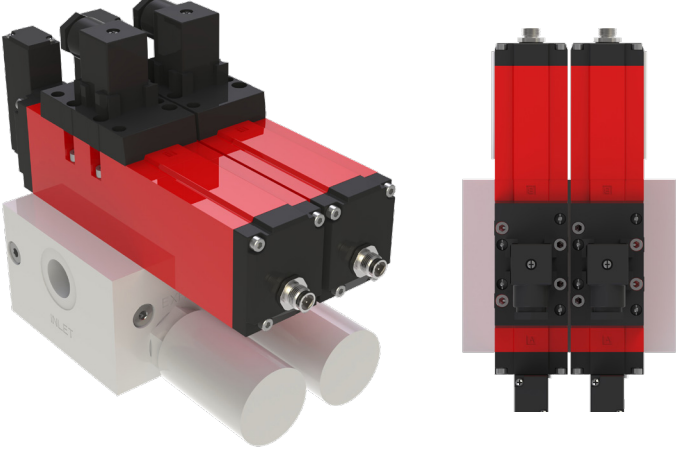


Pneumatic Monitored Valve 3/4" BSP series ported manifold and up to 5.5Cv

<p>Description</p> <p>Directional control valves for pneumatic safety applications in five port two position sliding spool type with static seals, mounted on a safety manifold configured for three port two position operation.</p> <p>Each valve incorporates a two-pole positive opening plunger type switch with positive opening contact. The models offered have certification to meet International & European machinery safety standards.</p> <p>Valves are supplied with 24VDC solenoid coils as standard unless otherwise specified.</p>	
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Options & Ordering Information	
Description	Part NO.
Spare Single Valve to suit PSV-0EAD...	PSV-0EAD-S
Single 3/4" BSP Port 5.5Cv Monitored Pneumatic Valve on Series ported manifold	PSV-0EAD-1-G075-MP0
Dual 3/4" BSP Port 5.5Cv Monitored Pneumatic Valve on Series ported manifold	PSV-0EAD-2-G075-MP0

Safety Functions
Turns mechanical movement of spool into operation of safety contacts. Safety related stop function - block upstream power supply and exhaust downstream load pressure.

Important:
<p>The products must be used in accordance with the installation instructions and operating conditions in this data sheet, which has been produced to support the requirements of the harmonized standard ISO 13849-1.</p> <p>Additionally, for products intended to be sold in European Economic Area:</p> <p>“Safety devices” or other safety functions mentioned in any product literature are not necessarily “safety components” as defined by the Machinery Directive 2006/42/EC, unless otherwise stated together with the CE Mark and specific reference to said directive.</p>
<p>This product is designed for use according to the installation and operating instructions enclosed. It must be installed by a competent and qualified personnel who have read and understood the whole of this document prior to commencing installation. If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired. Any modification to or deviation from these instructions invalidates all warranties. Fortress Interlocks Ltd accepts no liability whatsoever for any situation arising from misuse or misapplication of this product.</p>
<p>THIS SHOULD SPECIFY THAT PLE, CAT 4 ARE ONLY ACHIEVEMENT IN DUAL ARRAY.</p> <p>BEWARE OF INTENTIONAL MISUSE CAUSED BY OPERATORS WANTING TO BYPASS SAFETY SYSTEMS. THE INSTALLER SHOULD ASSESS THE RISKS AND MITIGATE AGAINST THEM.</p> <p>IF YOU HAVE ANY QUESTIONS OR QUERIES OF ANY NATURE WHATSOEVER PLEASE CONTACT THE SUPPLIER WHO WILL BE PLEASED TO ADVISE AND ASSIST.</p>

For Safety Components in accordance with Annex IIC (Machinery Directive)	
Valves manufactured by Fluidsentry Pty Ltd conform to the requirements of the following Directives and European Standards.	
Low Voltage Directive	73/23/EEC – EN 60204, IEC 1010, IEC 950.
EMC Directive	89/336/EEC – EN 55014, EN 50081-2, EN 50082-1, EN 50082-2
Machinery Directive	98/37/EC – EN 292-1, EN 292-2, EN 983, EN 954-1, EN 1050, EN60204.

Operating Instructions: Specifications

Valve Specifications	
Materials	
Main body, extension housing	Aluminium
Pilot housing	Plastic
Spool	Aluminium
Return spring	Steel
Seals	Nitrile Rubber
Screws	Cap Screws
Lubricant	Diamond Grease
Switch	
Type	Plunger
Contacts	1 x Normally Closed (Safety Contact) 1 x Normally Open (Non Safe Contact)
Approvals	EN 1088, EN 60947-5-1, EN 292, EN 60204-1
Max Current Rating	
Max Voltage Rating	
Torque	
PSV-0EAD...	2.8 Nm
Solenoid	
Voltages Available	24vdc (standard) / (alternative types available. Contact rep)
Power Consumption DC	1.8W (24V) - (2.04W with surge suppression)
Features	Indicator light and surge suppression
Allowable Voltage	-15%to + 10% Rated Voltage
AC Power Voltages	Inrush: 5.6VA / 50Hz 5.0VA / 60Hz Holding: 3.4VA (2.1W) 50Hz, 2.3VA (1.5W) 60Hz
Performance	
Valve working pressure range	250 – 1000 kPa
Port connection	3/4" BSPP
Medium	Compressed air filtered to 5 micron and/or lubricated
Operating temperature range	Max +50 Celsius
Cv (flow factor)	P to A 5.5
Maximum Operating Frequency	5Hz
Activation time	25 Milliseconds
Deactivation time	110 Milliseconds
Rating	
Protection	IP 62
Approvals	
Low Voltage Directive	File No: R 9250033
EMC Directive	File No: H/EMC 95000251-3
Machinery Directives	98/37/EC – EN 292-1, EN 292-2, EN 983, EN 954-1, EN 1050
Manual	
Manual Override	Disabled Internally
Silencers	
Pilot Exhaust	1/8" BSP
Main Exhaust	3/4" BSP
ISO 13849-1 Data	
Performance Level	PLe and category 4
B10d	1,000,000 cycles
Vibration	Vibration in line with spool axis < 5g

Operating Instructions: Specifications

Figure 1: Wiring Diagram - Pneumatic Connection Example

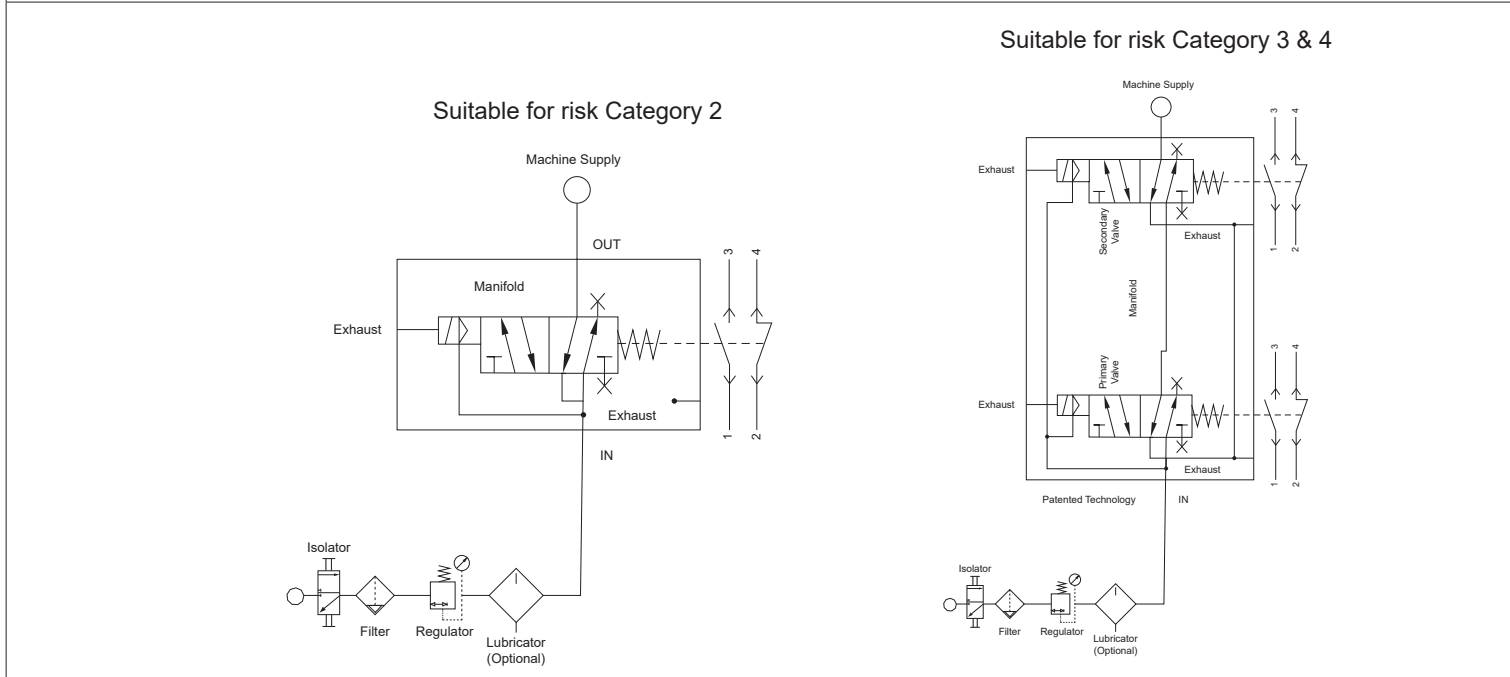
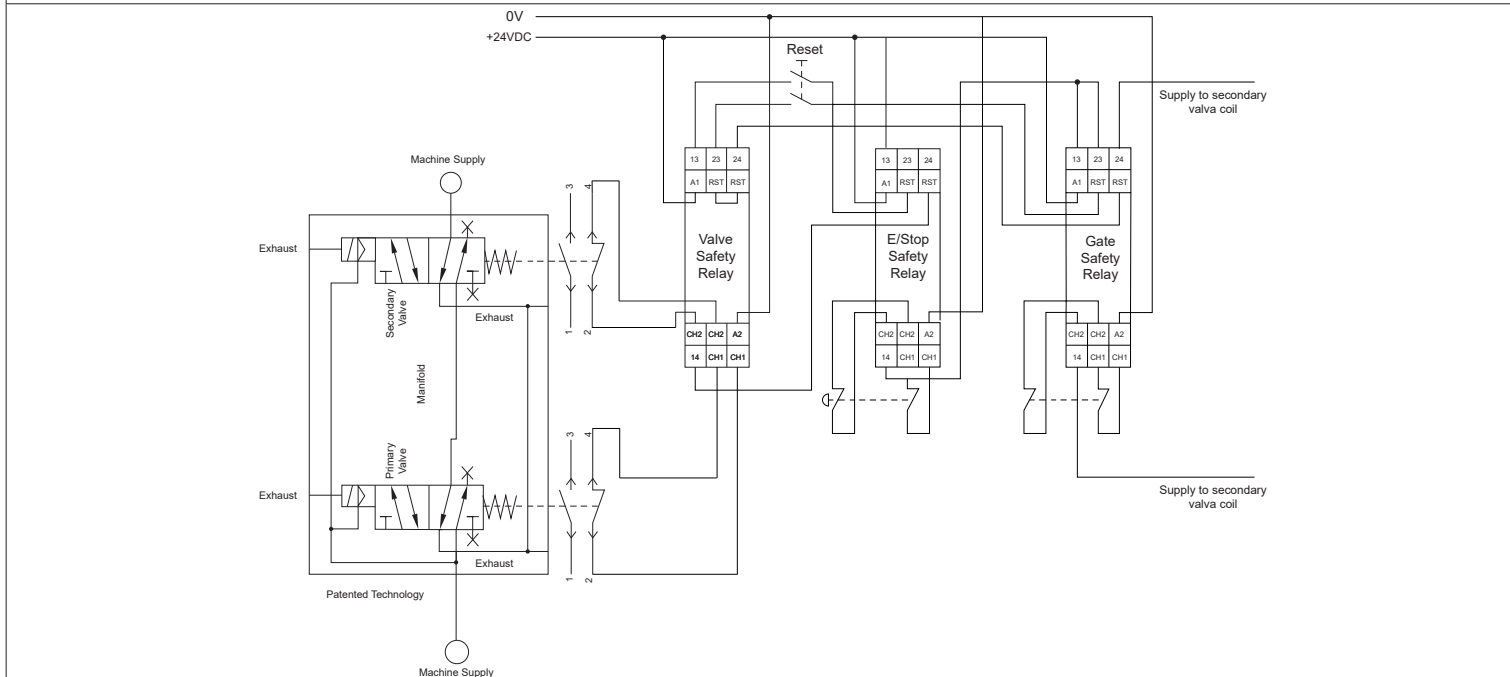
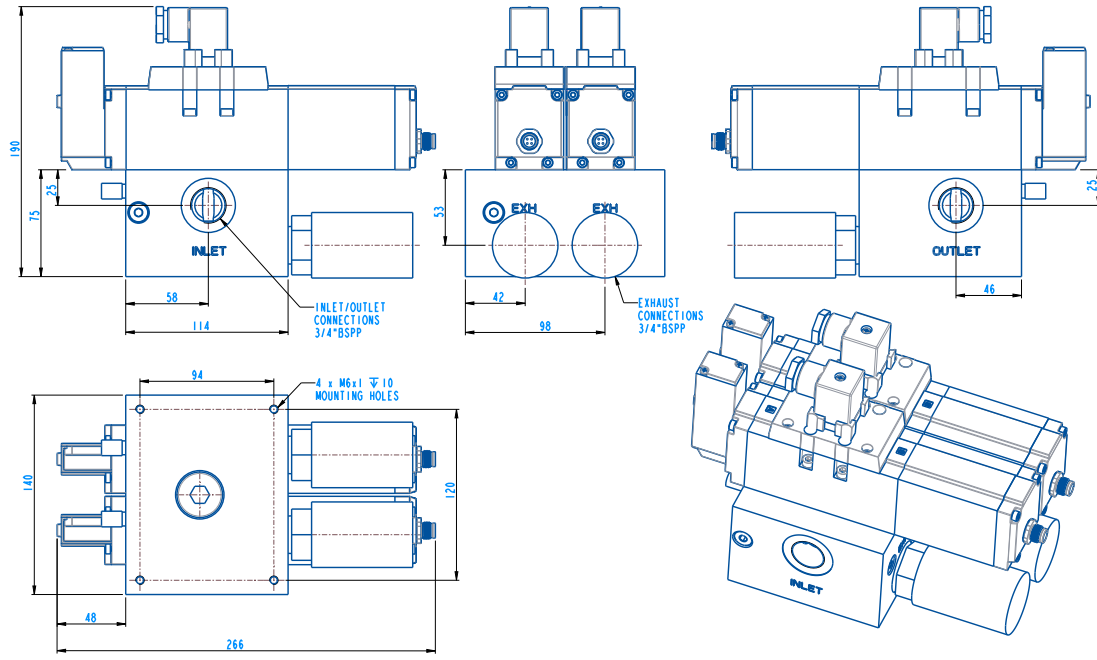


Figure 2: Wiring Diagram - Electrical Interlocking / Interfacing - Example System



Operating Instructions: Specifications

Figure 3: Dimensional Drawing - PSV-0EAD-2-G075-MP0 - Pneumatic Valve



Operating Instructions: Cautions & Warnings

Warning
Selection
Confirm specifications Products represented in this data sheet are designed for use in compressed air and hydraulic applications only, unless otherwise indicated. Do not use the products outside their design parameters.
Installation
1. Do not install unless the safety instructions have been read and understood. Keep this data sheet on file for future reference.
2. Maintenance When installing the products, please allow access for maintenance.
3. Tightening Torque When installing the products, please follow the listed torque specifications.
Caution
Piping
1. Before Piping Make sure that all debris, cutting oil, dust, etc. are removed from the piping.
2. Sealant Tape When installing piping or fitting into a port, ensure that sealant material does not clog up the pressure port. When using sealant tape leave the first 1.5 to 2 thread turns exposed at the end of the pipe/fitting.
Warning
Environment
1. Do not use in an environment where the product is directly exposed to corrosive gases, chemicals, salt water, water or steam.
2. Do not expose the product to direct sunlight for an extended period of time. If the product has to be mounted in an area where exposure to direct sunlight cannot be avoided, the use of a protective cover is recommended.
3. Do not mount the product in a location where it is subject to strong vibrations and/or shock.
4. Do not mount the product in a location where it is exposed to radiant heat.
Maintenance
1. Maintaining the product If handled improperly, compressed air can be dangerous. Assembly, handling and repair of pneumatic and hydraulic systems should be performed by qualified personnel only.
2. Drain Remove condensate from the filter bowl on a regular basis.
3. Shut-down before maintenance Before attempting any kind of maintenance make sure the supply pressure is shut off and all residual air pressure is released from the system to be worked on.
4. Start-up after maintenance Apply operating pressure and power to the equipment and check for proper operation and possible air leaks. If operation is abnormal, please verify product set-up parameters.
5. Do not make any modification to the product Do not take the product apart.